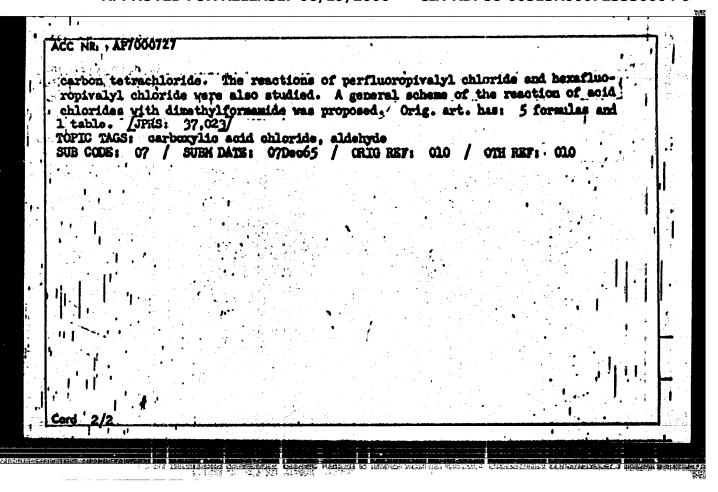


2	ACC NR. A17,000727 SOURCE CODE: UR/0062/66/000/006/1038/1047
1	NEUNYANTS, I. L., CHEBURKOV, Yu. A., AROMOV, Yu. Ye., Institute of Hetero- organic Compounds, Academy of Sciences USSR (Institut elementoorganicheskilch
-	"Reaction of Chlorides of Carboxylic Acids with Dimethylformsmide"
	Moscov, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 6, 1966, pp 1038-1047
1	Abstract: A new trend of the reaction of halides of carboxylic acids with dimethylformamide, leading to aldehydes of these acids, was demonstrated. Depending upon the structure of the acids, either transamidation or aldehyde
	formation occurs. In the reaction of acetyl, trifluoroacetyl, isobutyryl, n- perfluorobutyryl, and benzoyl chlorides with dimethylformamide, the dimethyla- mides of the corresponding acids were formed. In the case of n-perfluorobutyryl
•	chloride, together with the basic product, the dimethylamide of perfluorobutyryl-
	action with dimethylformamide liberated CO, and produced an unstable crystalline substance, which readily hydrolysed to hexafluoroisobutyraldehyde. Derivatives of hexafluoroisobutyryl chloride and trichloroacetyl chloride reacted with
'	dimethylformamide to form not only the aldehydes, but also the corresponding chlorosikanes and carbon monoxide, decarbonylation products of the original
:	three schemes, yielding the dimethylamide of trichloroscetic soid, chloral, and
, q	Cord; 1/2 UDC: 412.95 + 412.95
173 EUE	



	ACC NR. AP6032901 SOUNCE CODA: DIVO062/66/000/009/1571/1575
	AUTHOR: Kmunyants, I. L.; Bykliovskaya, E. G.
	ORG: none
	TITIE: Reactions of fluoreolering. Report No. 18. Addition of thiophosphoric acids to q-olorins
	SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 9, 1966, 1571-1575
	TOPIC TAGS: elecin, phosphonate, phosphoric acid, isobutylene
	ADSTRACT: It is shown that o-isobutylone and o-cyclobutenc readily react with salts of soid esters of mothylphosphonic, methylthiophosphonic and disopropylthiophosphonic soid. The compounds obtained have structure (I) or (II):
The same and a same a s	P-OCT-CH(CFs): P-SCF-CH(CFs): (I) (II) O-Isopropyl-O-2-monohydro-p-isebutylthionephosphonate (III) was formed as follows:
	C-18opropy1-C-2-mononydro-m-1830dcy1chionsphionace (222) and 201-0-
	Card 1/3 UDC: 542.91+547.321+661.718.1
955-ff68	

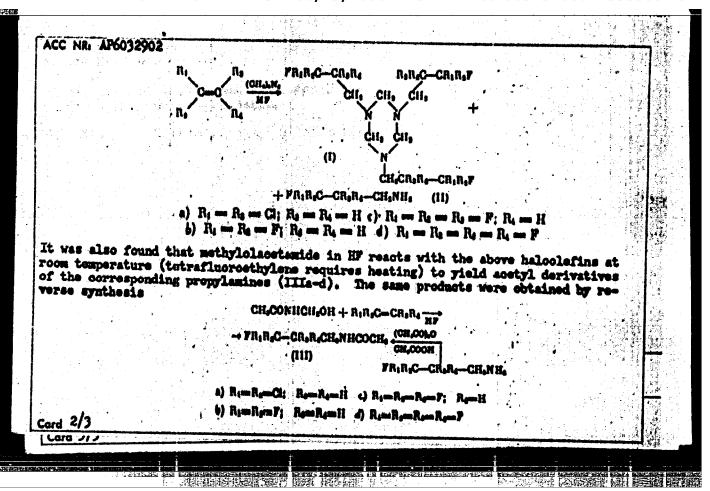
	P-OH + CF ₂ -C	$(CP_{a})_{a} \rightarrow P - OC$ $I - C_{a} II_{a}O$	F _i CH (CF _i),	
	the supplies of the second	(111)		
presence of potal	is reacted with isopressium acctate, either	opyl methylthiopho	sphonate in acet	io soid in the
	Cile			
		-OCOCII (CF ₃) _a		
	1.0,11,0			
or the fluoride of	isopropyl methylphos	phonate is formed.	. Isopropyl methy	lphosphonate
adds to q-isobuty	DE-OH CA-C	CPA)		
	o de la companya de	ð		
but the product of isopropyl methylp	could not be isolated	because it convert	ed into the finer	ide of
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	P-ocraticani.	Now the Line of the land		
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11100100	SOURCE CODE: UR/0062/66/000/009/1575/1581	
AUTHOR: Podol'skiy, A. V.;	German, L. S.; Knunyants, I. L.	7.
ORG: Institute of Organomet mentoorganicheskikh soyedine	allic Compounds, Academy of Sciences, SSSR (Institut ele-	
TITIE: Roactions in anhydro tion and fluoroacylaminometh	us hydrogen fluoride. Report No. 5, Fluoroaminomethyla-	
SOURCE: AN SSSR. Isvestiya	. Seriya khimicheskaya, no. 9, 1966, 1575-1581	
TOPIC TAGS: olefin, hydroge	n fluoride, fluorinated organic compound	
ABSTRACT: Experiments have		
mild conditions (s-200 atmo		
mild conditions (5-20°, atmos	spheric pressure). With tetrafluoroethylene under very	
mild conditions (5-20°, atmos		
mild conditions (5-20°, atmos	spheric pressure). With tetrafluoroethylene under very	
mild conditions (5-20°, atmos	spheric pressure). With tetrafluoroethylene under very	
mild conditions (5-20°, atmost can take place at 50° only ur ponding symmetrical N-fluroal mines (IIa-d).	spheric pressure). With tetrafluoroethylene, the reaction of the pressure. The main reaction products are the correspublication of the correspondence of th	
mild conditions (5-20°, atmos	spheric pressure). With tetrafluoroethylene under very	



ACC NR: AP6032590

SOURCE CODE: UR/0062/66/000/008/1377/1382

AUTHOR: Knunyants, I. L.; Dyatkin, B. L.; Gevorkyan, A. A.

ORG: Institute of Organometallic Compounds, Academy of Sciences, SSSR (Institut clomentoorganicheskikh soyedineniy Akademii nauk SSSR)

TITIE: Reactions of a-chloroperfluoronitrosoalkanes with unsaturated compounds

SOURCE: AN SSSR. Investiya. Seriya khimicheskaya, no. 8, 1966, 1377-1382

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TOPIC TAGS: organic nitroso compound, fluorinated organic compound

ABSTRACT: The reactions of diene hydrocarbons and olefins (isobutylone and propylene) with two α-chloroperfluoronitroscalkanes, α-chloroperfluoronitroscathane CF3CFCHNO (I) and α-chloro-β-nitroperfluoronitroscathane O₂NCF₂CFCHNO (II), are described. (I) and (II) reacted very readily in other solution at -20 to -15°C with butadiene, isoprene and chloroprene. The main direction of the reaction is a diene-synthesis-type addition forming derivatives of 3,6-dihydro-1,2-examines

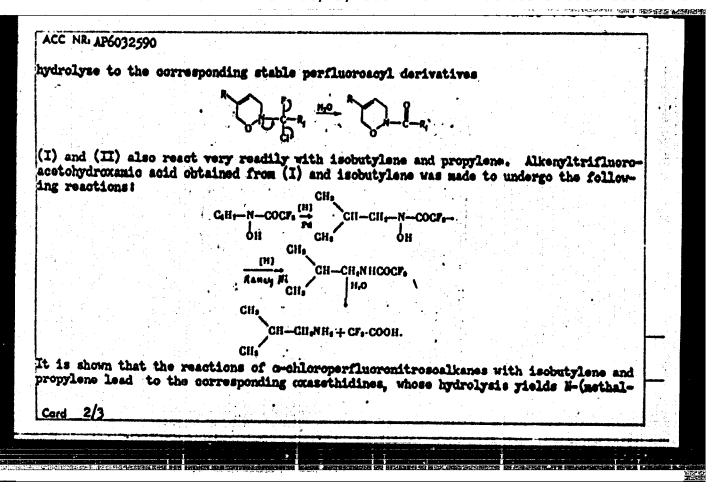
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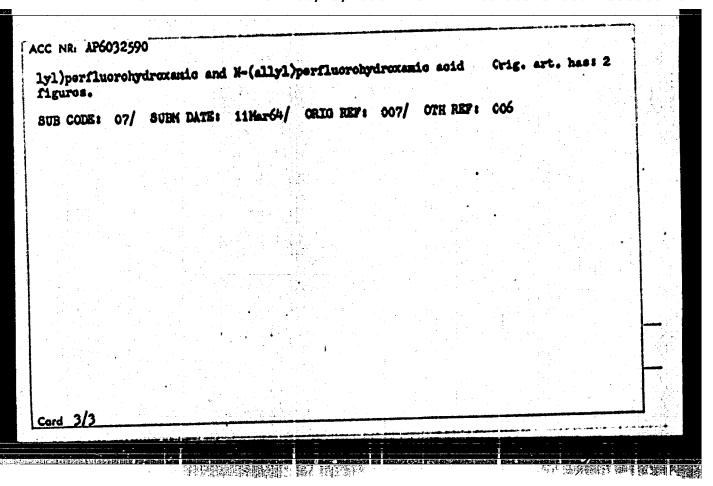
Rallichticht Racts, ONCE,

These compounds are unstable and darken rapidly at room temperature. They readily

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VDC1 542.91+547.231+661.723-16



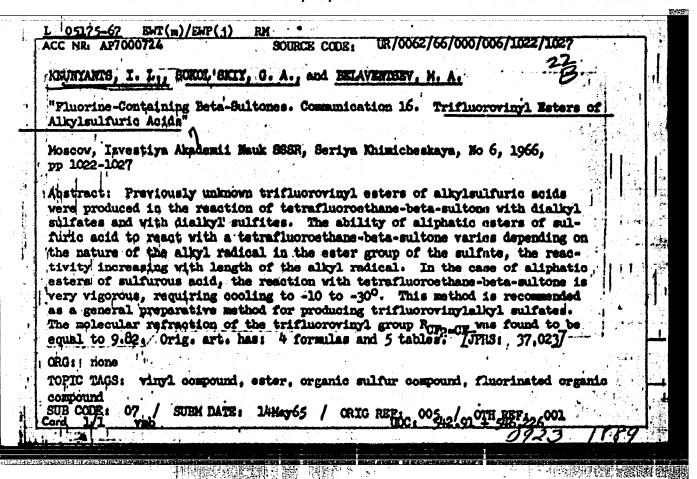


ACC NR. AP6 0255	37 , SOURCE CODE	: UR/0413/66/000/	013/0020/0020	
INVENTOR: Knunya	its, I. L.; Bykhovskay	a, E. G.; Frosin,	V. N.; Slzov, Yu.	A-
ORG: none				
tans. Class 12.	of preparation of 2-(N No. 103204. [announ ennaya akademiya khimi	ced by Miliatry Ac	ademy for Chemic	d
SOURCE: 1zobre (no. 13, 1966, 20	teniya, promyshlennyye)	obrastay, towarny	ye znaki,	
TOPIC TAGS: all dialkylhydroxyl:	coxyalkylaminoethyl me umine, merceptan, sulfide	rcaptan, ethylene i	ulfide,	
ABSTRACT: In the proposed menobtained by the reat 90—100°C in an	thod, 2-(N-alkoxy-N-alkyl) action of ethylene sulfide organic solvent.	with n,0-dialkylnydra	ere xylemine 50; CBS No. 10	
SUB CODE: 07/	SUBH DATE: 20Sep65/			
Card 1/1	VDC: 547.2	69,1'233,07		

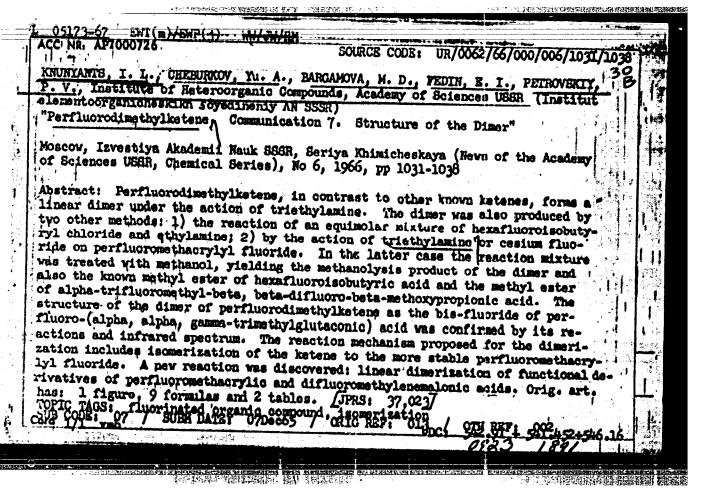
ACC NR AP6031648					
2,2'-Dichloro-3,3	"-dithiodiisobutyrio soid (VI)	was propared as f	allows:		
	CISCH-CCOCI HAD ISCH-CCOC				
	\a - 1 \a	(vi)			risti Turis Polite
In liquid amonia a, a'-dimethylayst	, (VI) readily exchanges a chloine (VII):	orine atom for an	mine group t	o form	
	OH6	CH ₆			
	(-80H-0000H) RE- (-4	MH ₄			
In many cases, th	is method may be the simplest i	(411)	me homologs.		
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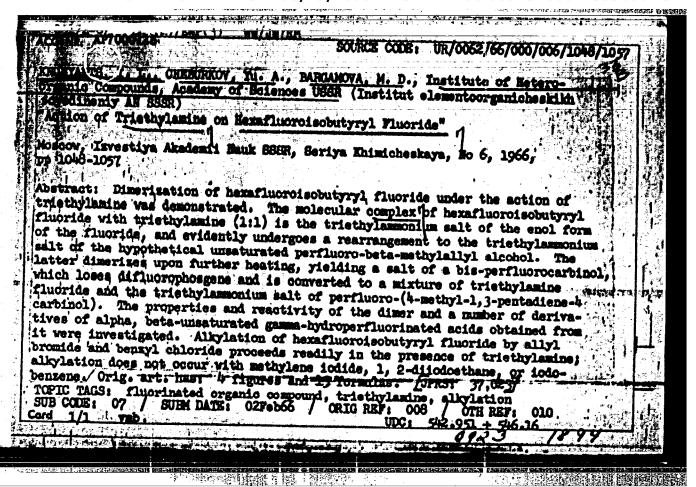
1. 05176-67 EWT(m)/EWP(1) SOURCE CODE: UR/0062/66/000/005/1017/1022 ACC NR: AP7000723 KNUNYANTS, I. I., SOKOL'SKIY, G. A., and BELAVENTSEY Alkyl Fluorosulfates' "Fluorine-Containing Beta-Sultones. Communication 15. Moscov, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya, No 6, 1966, pp 1017-1022 Abstract: Tetrafluoroethane-beta-sultone reacts with methanesulfonyl chloride, alkyl chlorosulfates, and sulfuryl chloride to form trifluorovinyl chlorosulfate, and the corresponding fluorosulfonyl compounds. The temperature conditions of the reaction and yield of trifluorovinyl chlorosulfate are determined by the nature of the substituent on the chlorosulfonyl group of the reactant. The most favorable conditions are observed when methanesulfonyl chloride, a compound characterized by high lability of the chlorine atom in the chlorosulfonyl group, is used. With increasing electron-acceptor properties of the substituent (CH3 < RO < HO < C1), the mobility of the chlorine in the reagent molecule decreases, and obstacles to the reaction increase. The reaction of fluorine-containing beta-sultones with alkyl chlorosulfates is a general method for producing previously unavailable aliphatic esters of fluorosulfonic acid. The reaction was conducted between tetrafluoroethane-beta-sultone and methyl, ethyl, n-propyl, n-butyl, n-amyl, and n-hexyl chlorosulfates, producing the UDC: 1/2 Card

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has: 7 formulas	and 7 tables	sJipres:	37,023/				
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ORG: none							1
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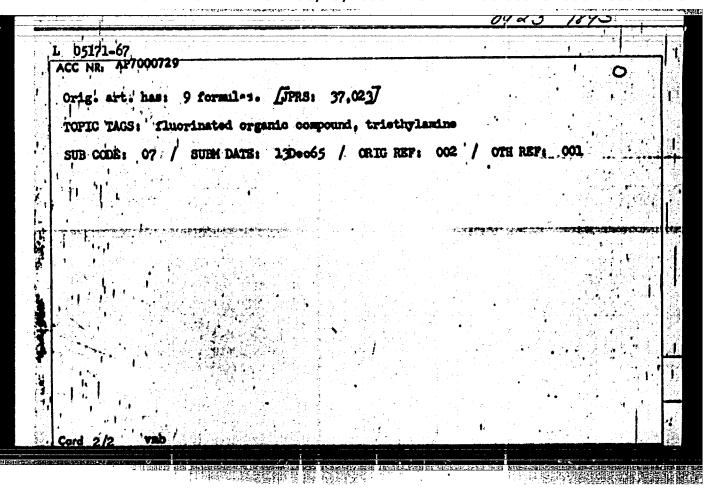
05174-67 $EMT(\frac{\pi}{4})/EMP(\frac{\pi}{4})$ ACC NR. AP7000723 SOURCE CODE: UR/0052/66/000/006/1027/1031 KNUNYANTS, I. L., BELAVENTSEV, M. A., ROPALO, P. P., SOKOL'SKIY, G. A. "Fluorine-Containing Beta-Sultones. Communication 17. Derivates of Pentafluoropropenylet ifuric Acid' Moscov, Izvesti - Akademii Nauk SSSR, Seriya Khimicheskaya, No 6, 1966, pp 1027-1031 Abstract: Pentsfluoropropenyl chlorosulfate was produced by the reaction of hexafluoropropane-2-beta-sultone with alkanesulfonyl chlorides (methane- and ethanesulfonyl chlorides), with alkyl chlorosulfates (n-amyl and n-hexyl chlorosulfates), and chlorosulfonic acid, as well as by the reaction of hexafluoropropylene with chlorosulfonic soid or with a solution of sulfuric anhydride. The latter reaction includes the intermediate formation and further conversion of hexafluoropropane-2-beta-sultons. The reaction of hexafluoropropane-2-beta-sultone with dialkyl sulfites yields pentafluoropropenylalkyl sulfates. Hydrolysis and alcoholysis of the latter were studied. The physical properties of the derivatives of pentafluoropropenylsulfuric acid obtained were also investigated. Origo art. has: 6 formulas and 6 tables. [JPRS: 37,023] ORGa none TOPIC TAGS: fluorinated organic compound, organic sulfur compound SUSM DATE: 17Feb66 / CRIG REF: 004 SUB CODE: 07 / UDC: 542.91





105171-67 ENT(m)/EMP(1) _ww/jw/rm SOURCE CODE! UR/0062/66/000/006/1057/10 KNUNYANTS, I. L., KOCHARYAM, S. T., ROKHLIN, Ye. M., Institute of Heteroorganic Compounds, Academy of Sciences USER (Institut elementoorganicheskikh soyedinenty "Mobility of Hydrogen Atoms in Monohydroperfluoroalkanes and Related Compounds. Communication 2. 2-Monohydroperfluoroisobutane in the Michael Reaction Moscow, Izvestiya Akademii Hauk SSSR, Seriya Khimicheskaya, No 6, 1966, pp Abstract: The synthetic utilization of the proton mobility of hydrogen atoms in monohydroperfluoroalkanes, induced by the electron repelling action of the perfluoroalkyl groups, was demonstrated for the first time. It was found that triethylamine can be used successfully as the catalyst of the Michael reaction in the case of 2-monohydroperfluoroisobutane and related compounds. In the presence of triethylamine, 2-monohydroperfluoroisobutane adds to acrylic systems (acrylonitrile, methyl acrylate, and acrolein), yielding beta-(perfluoro-tert-butyl) propionitrile, the methyl ester of beta-(perfluoro-tert-butyl) propionic acid, and beta-(perfluoro-tert-butyl) propionaldehyde, which may be used as sources for the synthesis of organic compounds containing the perfluorotert-butyl group. Beters of alpha-hydrohexafluoroisobutyric acid and trifluoromethylmalonic acid react analogously, to form the corresponding beta-substitited propionitriles. A reaction mechanism including intermediate formation of a carbanion, which reacts with the activated double bond, is proposed. Card 542.95 + 661.723-16

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330004-9



MM/JM/RM SOURCE CODE: UR/0062/66/000/006/1062/1065 KNUNYANIS, I. L., GERMAN, L. S., ROZHKOV, I. N., Institute of Heteroorganic Co pounds, Academy of Sciences USSR (Institut elementoorganicheskikh soyedinenty AN SSSR "Aliphatic Fluoronitro-Compounds. | Communication 5. Proton Magnetic Resonance Spectra and Innigation Constants of Polyfluoronitroalkanes" Moscow, Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (News of the Academy of Sciences USER, Chemical Series), No 6, 1966; pp 1062-1065 Abstract: The proton magnetic resonance spectra of 15 different nitroelkanes were studied to evaluate the degree of shielding of the hydrogen atom in the alpha-position to the nitro-group. The introduction of fluorine atoms into the nitroalkane molecule, like that of other electronegative groups, leads to a shift in the signal of the alpha-hydrogen in the proton magnetic resonance spectrum into the region of a weaker field. The change in the chemical shift of the alpha-hydrogen upon the introduction of electronegative substituents into the nitroalkane molecule, with the exception of fluorine atoms, is correlated with the change in the ionization constants of these compounds. The absence of correlation for fluorine substituents is explained by the fact that the proton magnetic resonance spectrum characterizes the influence of substituents in the static state of the molecule, whereas the ionization constant characterizes the state of dynamic equilibrium of the process of acid-base conversion Card 543,422 + 661 THE STATE OF THE S

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proton magnetic of the nitro-con the chemical shi	resonance spe mound. Inser	ctrum and si	multaneously	the ionizati	on constant	
Orig. art. has:	3 formulas a	nd 1 table.	JPRS: 37,	0537	*	
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KNUMYANTS, I. I., GERMAN, L. S., Institute of Heteroorganic Compounds, Academy of Sciences USSR (Institut elementoorganicheskikh soyedineniy AN SSSR) "Reactions in Anhydrous Rydrogen Fluoride. Communication 1. Conjugated Halo- genation of Olefins" Moscov, Investiya Akademii Hauk SSSR, Seriya Khimicheskaya, Ro 6, 1966,	28 B
Moscov, Tzvestiya Akademii Nauk SSER, Seriya Khimicheskaya, No 6, 1966,	
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Abstract: A method was developed for synthesizing fluorochloroalkanes by conjugated chlorination of olefins in anhydrous hydrogen fluoride. In the reaction of ethylene with chlorine in anhydrous hydrogen chloride at -20 to 30°, together with the addition of chlorine at the double bond there is a conjugated of vinylidene chloride proceeds analogously. In the reaction of olefins with hexachloromelamine and hydrogen fluoride at atmospheric or somewhat higher pressure, chlorofluorination products are formed in yields as high as 60-67%. Considered addition of chlorine and fluorine was carried out with ethylene propylene, cyclohexene, vinylidene chloride and fluoride; and methyl acrylate. The zene electrophilically to yield beta-chloroethylbenzene. Ho such electrophilically to yield beta-chloroethylbenzene. Ho such electrophilical attack occurred in the chlorination of vinylidene chloride in the pressure of benzene. Orig. art. has: 5 formulas. The SUB CODE: 07 SUBM DATE: 25Jano5 CRIB REF: 003 OTH REF: 007 Cord 1/1	
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ACC NR. AP700073: SOURCE CODE: UR/0062/66/	000/006/1069/1075
KNUNYANTS, I. L., LIN'KOVA, M. G., MULESHOVA, N. D., Institute of He Compounds, Academy of Sciences USER (Institut elementoorganicheskik AN SSSR)	teroorganie h soyedinenty
"Structure of Addition Products of Methyl- and Ethylsulfene Chloride Derivatives of Aurylia Acid"	
Moscov, Investiya Akademii Meuk SSSR, Seriya Khimicheskaya, No 6, 19 pp 1069-1075	66,
Abstract: In the addition of alkylsulfens chlorides to acrylic acid tives CH2=CHR (R = GOOH, GOOGH3, CW, COSH2) a mixture of isomers CH2	-CH-R (1)
and CE2-CH-R (II) is formed, the ratio of which depends upon the sub	stituent
R. The more electronegative the substituent, the higher the content chloroisomer in the mixture of addition products of alkylsulfene chl acrylic acid derivatives. A reaction mechanism is proposed, which a the experimental data and accounts to the ratio of the isomers in the of addition products, the case of isomerization of II and I, and the the reverse isomerization is not observed. Orig. art. has: 12 forms.	orides to grees with mixture
TOPIC TAGS: organic sulfur compound, isomerisation, acrylic acid SUB CODE: 07 / SUBM DATE: 27March / ORIG REF 1,001 / OTH RE Cord 1/1 Yab / SUBM DATE: 27March / ORIG REF 1,001 / OTH RE O/	

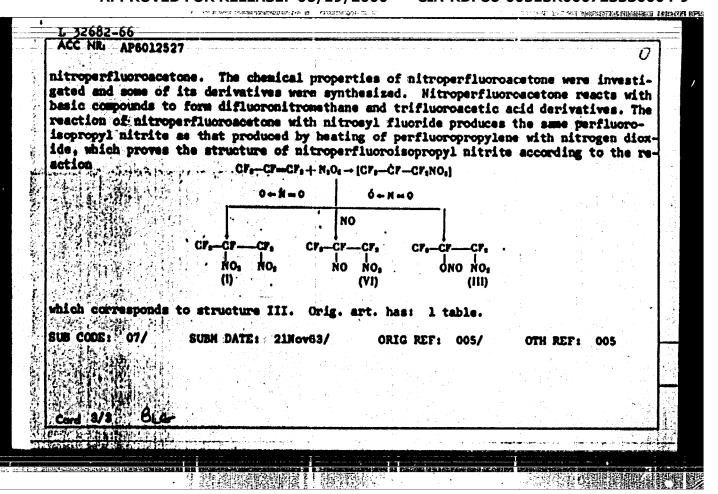
"Mucleophilic Bubstitution in the Beries of Derivatives of Phosphorus Acids." I. Kinetics of the Hydrolysis of Chlorides of Dialkylphosphinic Acids." Moscow, Ehurnal Obshchey Khimii, Vol 36, 80 6, 1966, pp 1090-1093 Abstract: To explain the increase in the reactivity of organophosphorus compounds with decreasing filling of the d-level of the phosphorus atom due to displacement of the p-electrons of the oxygen atom of the alkoxy-group, as well as the influence of other factors, particularly the steric factors, upon the reactivity of organophosphorus compounds, the authors studied the kinetics of the hydrolysis of a number of chlorides of phosphorus caids and chlorophosphonates. It was found that in addition to the inductive influence and effect of conjugation of atoms or groups of atoms bonded to the phosphorus, a great role in the reactivity of chlorides of phosphorus acids is played by the steric factor. The reactivity of chlorides of dialkylphosphinic acids varies by three orders of magnitude on account of the change in the entropy factor with a negligible change in the activation energy. Additive ratios of the influence of substituents in the series of phosphinoyl chlorides are observed only in those cases when the significance of steric hindrance is small. Investigations of an extensive number of examples indicated that the influence of substituents.	DEVOCEMENA, A. A., KHUNYANTE, I. L.	was to get a see a second of the second of t
Rucleophilic Substitution in the Series of Derivatives of Phosphorus Acids. Kinetics of the Hydrolysis of Chlorides of Dialkylphosphinic Acids. Abstract: To explain the increase in the reactivity of organophosphorus compounds with decreasing filling of the delevel of the phosphorus atom due to displacement of the p-electrons of the oxygen atom of the alkoxy-group, as well as the influence of other factors, particularly the steric factors, upon the reactivity of organophosphorus compounds, the authors studied the kinetics of the hydrolysis of a number of chlorides of phosphinic acids and chlorophosphonates. It was found that in addition to the inductive influence and effect of conjugation of atoms or groups of atoms bonded to the phosphorus, a great role in the reactivity of chlorides of dialkylphosphinic acids varies by three orders of magnitude on account of the change in the entropy factor with a negligible change in the activation energy. Additive ratios of the influence of substituents in the series of phosphonyl chlorides are observed only in those cases when the significance of steric hindrance is small. Investigations of an extensive number of examples indicated that the influence of substituents	ELMIODETA, At At, KOUMINGIO, AT MI	
Abstract: To explain the increase in the reactivity of organophosphorus compounds with decreasing filling of the d-level of the phosphorus atom due to displacement of the p-electrons of the oxygen atom of the alkoxy-group, as well as the influence of other factors, particularly the steric factors, upon the reactivity of organophosphorus compounds, the authors studied the kinetics of the hydrolysis of a number of chlorides of phosphinic acids and chlorophosphonates. It was found that in addition to the inductive influence and effect of conjugation of atoms or groups of atoms bonded to the phosphorus, a great role in the reactivity of halides of phosphorus acids is played by the steric factor. The reactivity of chlorides of dialkylphosphinic acids varies by three orders of magnitude on account of the change in the entropy factor with a negligible change in the activation energy. Additive ratios of the influence of substituents in the series of phosphinoyl chlorides are observed only in those cases when the significance of steric hindrance is small. Investigations of an extensive number of examples indicated that the influence of substituents	Mucleophilic Substitution in the Serie . Kinetics of the Hydrolysis of Calox	s of Derivatives of Phosphorus Acids. 2
placement of the p-electrons of the d-level of the phosphorus atom due to displacement of the p-electrons of the oxygen atom of the alkoxy-group, as well as the influence of other factors, particularly the steric factors, upon the reactivity of organophosphorus comptunds, the authors studied the kinetics of the hydrolysis of a number of chlorides of phosphinic acids and chlorophosphonates. It was found that in addition to the inductive influence and effect of conjugation of atoms or groups of atoms bonded to the phosphorus, a great role in the reactivity of halides of phosphorus acids is played by the steric factor. The reactivity of chlorides of dialkylphosphinic acids varies by three orders of magnitude on account of the change in the entropy factor with a negligible change in the activation energy. Additive ratios of the influence of substituents in the series of phosphinoyl chlorides are observed only in those cases when the significance of steric hindrance is small. Investigations of an extensive number of examples indicated that the influence of substituents	foscow, Zhurnal Obshohey Khimii) Vol 36	5, No 6, 1966, pp 1090-1098
placement of the p-electrons of the d-level of the phosphorus atom due to displacement of the p-electrons of the oxygen atom of the alkoxy-group, as well as the influence of other factors, particularly the steric factors, upon the reactivity of organophosphorus comptunds, the authors studied the kinetics of the hydrolysis of a number of chlorides of phosphinic acids and chlorophosphonates. It was found that in addition to the inductive influence and effect of conjugation of atoms or groups of atoms bonded to the phosphorus, a great role in the reactivity of halides of phosphorus acids is played by the steric factor. The reactivity of chlorides of dialkylphosphinic acids varies by three orders of magnitude on account of the change in the entropy factor with a negligible change in the activation energy. Additive ratios of the influence of substituents in the series of phosphinoyl chlorides are observed only in those cases when the significance of steric hindrance is small. Investigations of an extensive number of examples indicated that the influence of substituents	betreet: To explain the increase in t	he reactivity of organophosphorus com-
placement of the p-electrons of the oxygen atom of the alkoxy-group, as well as the influence of other factors, particularly the steric factors, upon the reactivity of organophosphorus compounds, the authors studied the kinetics of the hydrolysis of a number of chlorides of phosphinic acids and chlorophosphonates. It was found that in addition to the inductive influence and effect of conjugation of atoms or groups of atoms bonded to the phosphorus, a great role in the reactivity of halides of phosphorus acids is played by the steric factor. The reactivity of chlorides of dialkylphosphinic acids varies by three orders of magnitude on account of the change in the entropy factor with a negligible change in the activation energy. Additive ratios of the influence of substituents in the series of phosphinoyl chlorides are observed only in those cases when the significance of steric hindrance is small. Investigations of an extensive number of examples indicated that the influence of substituents	counds with decreasing filling of the d	i-level of the phosphorus atom due to dis-
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L 05165-67 DAT (m) /EMP(1) WW/.TM/RM SOURCE CODE: UR/0062/66/000/006/	1108/1110
CNUNYANTS, I. L., ZEYPMAN, Yu. V., GAKBARYAN, B. P., Institute of Hetero- organic Compounds, Academy of Sciences USSR (Institut elementoorganichesici soyedineniy AN SER) "2-Acetoxy-2-acc ylaminohexafluoropropane and Its Reactions"	a 26 B
Moscov, Izvesti) Akademii Mauk SSSR, Seriya Khimicheskaya, No 6, 1966, pp 1108-1110	
Abstract: 2-Acstoxy-2-acetylaminohexafluoropropane was produced by reaction of hexafluoropacetoneimine with acetic anhydride in the presence of catalytic amounts of sulfuric acid. It was also produced by acetylation of the gemine hydroxyamide with acetic anhydride. Reactions of 2-acetoxy-2-acetylaminohem fluoropropane were studied: it reacts readily with nucleophilic reagents with a replacement of the acetoxy group. The reaction with acetamide yields 2,2-bis-(acetamido) hexafluoropropane; the reaction with ketene leads to a dihydroxxazione, hydrolysis of which yields beta-acetylamino-beta, beta-bis-(trifluoromethyl) propionic acid, and then hexafluoro-beta-valine. Orig. art. TOPIC TAGS: fluorinated organic compound, hydrolysis, acetic anhydride	
SUB CODE: 107 / SUBM DATE: 06Deo65 / ORIG REF: 004 / OTE REF: 010	
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ACC NR AP/000738 MI/EMP(1) JM/RY	SOUDCE COOP IN	0062/66/000/006/1124	Mary 1
KNUNYAMTS I. L., DYATKIN, B. L., BROKE Compounds, Academy of Sciences USSR (Inc.			The state of the s
AN SSSR) "New Method of Synthesizing Alpha-Difluo Their Derivatives"			8
Moscow, Izvestiya Akademii Mauk SSSR, Se	eriya Khimicheskaya,	No 6, 1966, p 1124	
Abstract: A new method of synthesizing acids and their derivatives on the basis ethers and tetrafluorohydrazine was disc was treated with tetrafluorohydrazine, t pentafluoride, and the ROF(NF ₂)COF forme alphadifluoroaminoperfluoropropionic acides: 2 formulas. [JPRS: 37.023]	or readily available overed. The alkylpoint then treated manufactured with the second control of the second co	le alkylperfluoroviny orfluorovinyl ether ted with antimony	
TOPIC TAGS: organic synthetic process, hydrazine, nonmetallic organic derivative	fluorocarboxylic ac	id, ether, vinyl com	ound
SUB CODE: 07 / SUBM DATE: 07Apr-66 /	OTH REP: 001		
Card h/1 whb	UDC: 542.9	1 + 947.466 + 946.16	
	Carried In 1912 Fig. 10. (1816		

EWT(m)/EWP(s) RM/FDM/JV L 32682-66 EWT() ACC NR. AP6012527 UR/0062/66/000/003/0466/0472 SOURCE CODE: AUTHOR: Knunyants, I. L.; Jokin, A. V.; Komerov, V. A. ORG: none TITLE: Kitration of perfluoropropylene with nitrogen dioxide and investigation of nitration products SOURCE: AN SSSR. Investiya. Seriya khimicheskaya, no. 3, 1966, 466-472 TOPIC TAGS: nitration, organic chemistry, nitrogen oxide, fluorine compound, PROPYLENE ABSTRACT: The present study is a continuation of work reported in Dokl. AN BSSR, III, 1035 (1956). The synthesized nitration products are given in the following table along with some of their properties! 542.958.1 + 661.723-16 1/3 時期 经**定程度**加图 \$ \$1966.75%。

	Boiling		Boiling point		
	point •C (pres- sure, ma Hg) "P	Formula	°C (pres- sure, mm 20 Hg)	-3	
CP,-GP-OF, ONO SO, OF,-G-GF,NO, OF,-G-CF,NO, OF,-G-GF,NO, OF,-G-GF,NO, OF,-G-GF,NO, OH CN During nitration of part	119—120 1,638 1,356 32—33 1,5350 1,29 87 1,609 1,356 50 1,935 1,37 64—65(20) 1,6282 1,34	CF,NO, O-C-O CHP,NO, CF,-CH-CH, NO, OH CF,-CH,-OH NO, CH, CF,-C-CH, NO, OH	68(44) 1,616 42—43 64—65(25) 1,350 65(40) 1,4792 55(35) 1,2956	1,3780 1,3015	isopropyl
During nitration of part nitrile and dinitroperfit trite produces nitroperfit Core 2/8	luoroece tone hyd	rate which upon	dehydretica	produces	anhydrous



L 31885-66 ENT(m)/ENP(j)/T WM/JM/JWD/PM

ACC NR: AP6012539

SOURCE CODE: UR/0062/66/000/003/0585/0585

AUTHOR: Dyatkin, B. L.; Mochalina, Ye. P.; Bekker, R. A.; Knumyants, I. I

ORG: Institute of Elemental Organic Compounds, Academy of Sciences SSSR (Institute elementarnoorganicheskikh soyedineniy Akademii nauk SSSR)

TITLE: Mechanism of addition of nitrosyl fluoride to fluoroolefins

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 3, 1966, 585

TOPIC TAGS: organic synthesis, fluorine compound

ABSTRACT: The authors obtained experimental proof of the nucleophilic mechanism of addition of FNO to higher fluoroolefins. It was shown that alkali metal fluorides (especially in strongly ionizing media) are effective catalysts of this reaction

Perfluoroethylene reacts with FNO only at 120-150°C and the reaction of perfluoroethylene (15 g), FNO (5.5 g), CsF (2 g) and KF (4 g) produces 2-nitrosoperfluoroproethylene (15 g), FNO (5.5 g), CsF (2 g) and KF (4 g) produces 2-nitrosoperfluoroproethylene (15 g), FNO (5.5 g), CsF (2 g) and KF (4 g) produces 2-nitrosoperfluoroproethylene (15 g), FNO (5.5 g), CsF (2 g) and KF (4 g) produces 2-nitrosoperfluoroproethylene (15 g), FNO (5.5 g), CsF (2 g) and KF (4 g) produces 2-nitrosoperfluoroproethylene (15 g), FNO (5.5 g), CsF (2 g) and KF (4 g) produces 2-nitrosoperfluoroproethylene (15 g), FNO (5.5 g), CsF (2 g) and KF (4 g) produces 2-nitrosoperfluoroproethylene (15 g), FNO (5.5 g), CsF (2 g) and KF (4 g) produces 2-nitrosoperfluoroproethylene (15 g), FNO (5.5 g), CsF (5 g), CsF (5

Card 1/2

UDC: 541.124 + 546.16

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L 31795-66 SOURCE CODE: UR/0079/66/036/003/0500/0506 ACC NR. AP6021685 Neyrguliova, A. A.; Savelnik, V. I.; Kminyants, I. L. 42 AUTHOR: - 11/11 ORG: none TITLE: S-alkylthiophosphonic soids and their derivatives. I. Influence of induction and conjugation on the dissociation constants of the acids Zhurnal lobshchey khimii, v. 36, no. 3, 1966, 500-506 SOURCE TOPIC TAGS: phosphonic soid, nonmetallic organic derivative, conjugate bond system, dissociation constant, substituent, organic sulfur compound, chlorinated organic compound ABSTRACT: A series of thioesters of alkylthiophosphonic and anylthiophosphonic acids were produced for the first time by the action of water on benzene solutions of the corresponding thielchlorophesphates. Acid thioesters of alkyl- and arylthiophosphonic acids are thermally unstable compounds, in contrast to their oxygen analogs; S-alkylalkyl- and S-alkylarylthiophosphonic acids are stronger soids than their oxygen snalogs. The dissociation constants of the acids were determined and were found to depend not only on the inductive influence of substituents, but also on the ability of the atoms or groups of atoms bowled to the phosphorus to participate in conjugation with the vacant Malevel of the phosphorus atom. The influences of induction and conjugation upon the dissociation constants of the acids are discussed. 'Orig. art. has: 6 tables. [JPRS] SUB CODE: 07 / SUBH DATE: 19Apr65 / ORIG REF: 005 / OTH REF: 007 Card 1/1

ACC NR	AP6011196	1)/ENT(m)	manufacture (combattantum)	PRCE CODE:	UR/0413/6	6/000/00	6/0027/00)27
INVENTOR	Knunyan	s, I. L.;	Gambaryan,					I
ORG: nor								- 25 B
TITLE: [reparative	method fo 179764	r diplienylb	is(trifluo	romethyl)m	thaie-b	u'-dicar), ا	boxylic .
			hlenmye ob			aki, no.	6, 1966,	27
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ABSTRACT: diphenylb reaction	An Autho is(trifluc of hexafle	r Certific romethyl)m	ste has been thank-4,4	n issued for-	r a prepar	The met	hod involv	ves the
ABSTRACT: diphenylb reaction fluoride,	An Authois(triflucof hexaficand subse	r Certific romethyl)m oroacetone quent oxid	ate his bee	n issued for dicarboxyl ne in the p	r a prepar ic acid. resence of product wi	The met	hod involv	ves the
ABSTRACT: diphenylb reaction fluoride,	An Authois(triflucof hexaficand subse	r Certific romethyl)m oroacetone quent oxid	ate has been thank-4,4 with toluer ation of the invoidance of the	n issued for dicarboxyl ne in the p	ic a preparic acid. Tesence of product wi	The met	hod involv	ves the gen acid.

L 17611-66 ENT(m)/EWP(j) WW/JW/RM ACC NR: AP6002099

SOURCES CODE: UR/0062/65/000/011/1982/1987

AUTHORS: Mikhamedalivev. H.; Cheburkov. Yu. A.; Knunyante, I. L.

4%

ORG: Institute for Heteroorganic Compounds, Academy of Sciences, SSSR (Institute elementoorganicheskikh soyedineniy Akademii nauk SSSR)

TITLE: Perfluoredimethylketene. Communication 6. Interaction with nitrous sold derivatives

SOURCE: AM SSER. Investiya. Seriya khimicheskaya, no. 11, 1965, 1982-1987

TOPIC TAGS: fluoride, fluorinatel hydrocarbon, fluorinated organic compound, fluorine compound, organic nitril; compound, chemical reaction

ABSTRACT: The properties of the fluorosnhydride and ethyl oster of ci-nitroschexa-fluorobutyric acid were studied to extend the work of the authors (Dokl. AN SSSR 165, 1 (1966)). The latter compounds were obtained by reacting perfluorodimethyl-ketene with nitrosyl fluoride and ethylnitride. In addition, the reaction of perfluorodimethylketene with sodium nitrite and nitrogen trioxide, yielding an oxime of hexafluoroscetone, was also studied. A reaction mechanism for each of the reactions is proposed, and the yield and melting point of each product are recorded.

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L 18山山-66 E/T(m)/E/P(1) RM ACC NR: AP6002508 /(4) SOURCE CODE: UR/0286/6://000/	001/0017/0017
	18
AUTHORS: Knunyante, I. L.; Sokoliskiy, G. A.	В
GRG: none	
TITLE: Method for obtaining dially sulfates. Class 12, No. 1:6579 Military Academy of Chemical Defense (Voyennaya akademiya khimichesk	[announced by oy sasbahity]]
SOURCE: Byulleten' isobreteniy i tovarnykh snakov, no. 23, 1965, 17 TOPIC TAGS: organic sulfur compound, sulfate, alkylation	
ABSTRACT: This Author Certificate presents a method for obtaining d by treating sulfuryl chloride with an alkylating agent. To increase the desired product, alcohol sulfites are used as the alkylating age	the yield of
SUB CODE: 07/ SUBM DATE: 24D-1064	
Cord 1/1 UIC: S	47.261122.07
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GEVORKYAN, A.A.; DYATKIN, B.L.; KNURTANTS, I.L.

Certain reactions of tert-nitrosoperfluoroisobutene. Thur. VKHO
10 no. 62707-708 '65

1. Institut elementoorganicheskikh soyedineniy AN SSSR. Submitted July 22, 1965.

DYATKIN, B.L.; BEKKER, R.A.; MUNITANTS, 1.L., alademik

Reaction of alkylperfluorovinyl ethers with nitroger floxide.

Reters of nitrosoftuorocarboxylic acids. Dokl. AN SSSR 166
no.1:106-109 Ja '66. (HIRA 19:1)

1. Institut elementoorganicheskikh soyedinenty AN SSSR. Submitted July 9, 1965.

KNUMMANTS, I.L.; DYATKIN, B.L.; MCCHALINA, Ye.P.; LANTSEVA, L.T.

Hexafluoroisopropylhydroxylamine and the dissociation constants of some fluorinated hydroxylamines and oximes. lzv.AM SSSR. Ser. khim. no.1:179-180 '66. (HIRA 19:1)

1. Institut elementoorganicheskikh soyedineniy AN SESR. Submitted May 26, 1965.

KNUNYANTS, I.L., akademik; KOCHARYAN, S.T.; CHEBURKOV, Yu.A.; BARGAMOVA, M.D.;
ROKHLIN, Ye.M.

Reversibel dehydrofluorination of 2-monohydroperfluoroisobutane and 2-hydrohexafluoroisobutyric acid esters. Dokl. AN SSSR 165 no.4:827-830 D 165. (MIRA 18:12)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000723330004-9"

GERMAN, L.S.; KHUNYANTS, I.L., skademik

Hypofluorination reaction, Dokl, All SSSR 166 no.31602-603
Ja '66.

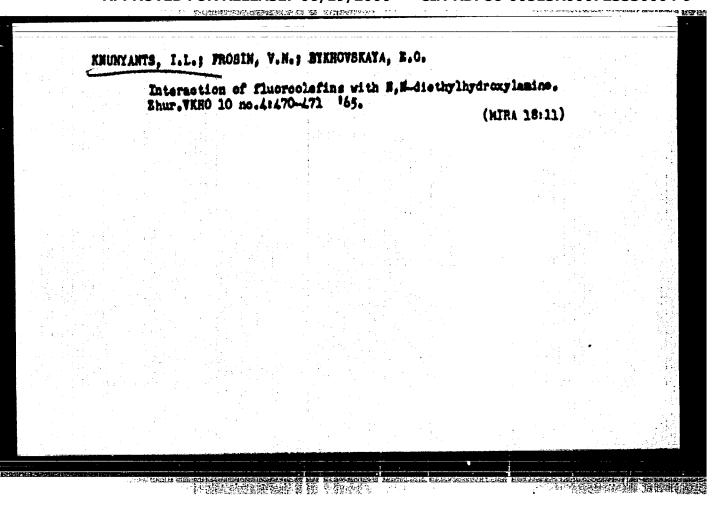
1. Institut elementoorganicheskikh soyedineniy AN SSSR.
Submitted July 21, 1965.

DIATKIN, B.L.; MOCHALINA, Ye.P.; LANTSEVA, L.T.; KNUNYARTS, I.L.

Hexafluoroisobutyric acid in the Borodin-Hunsdiscker reaction.

Zhar.VKHO 10 no.4:469-470 '65. (MIRA 18:11)

1. Institut elementoorganicheskikh soyedineniy AN SSGR.



ENUNYARICAL Late BYKHOVSKAYA, E.G.; DYATKIN, B.L.; FROSIN, V.M.;

GEVORRYAN, A.A.

Interaction of trifluoronitroisomethane and tert-perfluoronitroisobutane with acid phosphites. Zhur.VKHO 10 no.4:472-473 '65.

(MIRA 18:11)

GENIAL, L.S.; ROZHKOV, I.N., KINEKAKEL, I.L.

Mitrofluorination of ethylene and monofluoroacetic edid.

Elem., VINO 10 ac., 5:5999-400 '45.

(MIRA 18:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

MUKHAMADALIYEV, N., CHEBURKOV, Tu.A., RHUNYANTS, I.L.

京日的高級階級區等品級高級網報記述問題語。 2.5 首任 (1997年1997年)

Perflueredimethylketene. Report Ho.6: Reaction with derived tives of mitrous acid. Isv. AW SSSR. Ser. khis. no.11:1982-1987 165. (NIRA 16:11)

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ZEYPMAN, Tu. W.; GAMBARYAN, M.P.; KHUNYAHTS, I.L.

Hermfluoreagetone N-bennoyl amine, Isv. AN SSSR, Ser. khim. no.11:2046-2048 165. (MIRA 18:11)

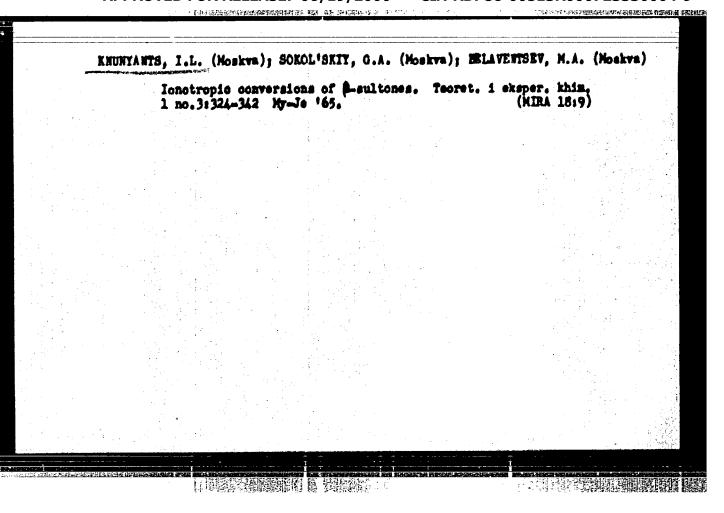
1. Institut elementeerganisbeskikh moyedineniy AM SSSR.

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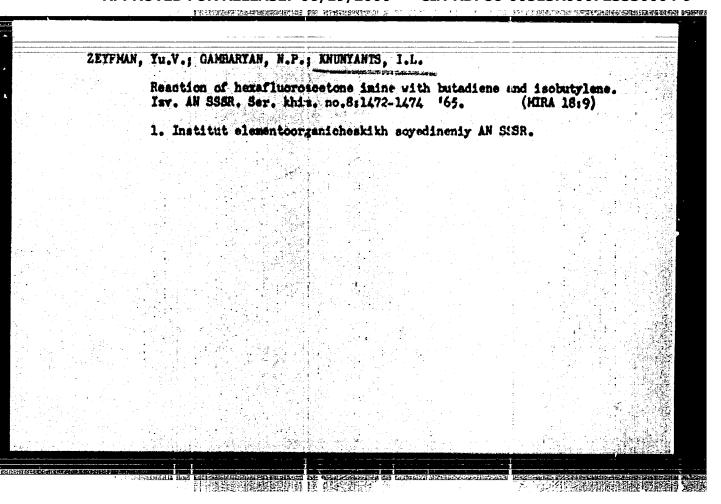
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EWT(m)/EPF(c)/EWP(j)/EWA(c) UR/0286/65/000/016/0027/0027 AP5024965 ACC NR: Knunyants AUTHORS: ORG: none TITLE: Method for obtaining octafluoroovolobutane. Class 12, No. /announced by Hilitary Academy of Chemical Defense, (Voyennaya akademiya khimicheskoy shashchity)/ SOURCE: Ryulleten' isobreteniy i tovarnykh snakov, no. 16, 1965, 27 TOPIC TAOS: fluenticated organic compound, tetrafluoroethylene, cyclic group, buter organic synthetic passess
ABSTRACT: This Author Certificate presents a method for obtaining octafluorocyclobutane by heating the tetrafluorosthylene in an autoclave in the presence of polymerisation inhibitors and by subsequent separation of the product by fractionation. To increase the yield of product, carbon dioxide or methylsulfite are used as polymerisation inhibitors, and the reaction is carried out at 150-1700. SUB CODE: SUBM DATE: 15Dec64 DW Card 1/1

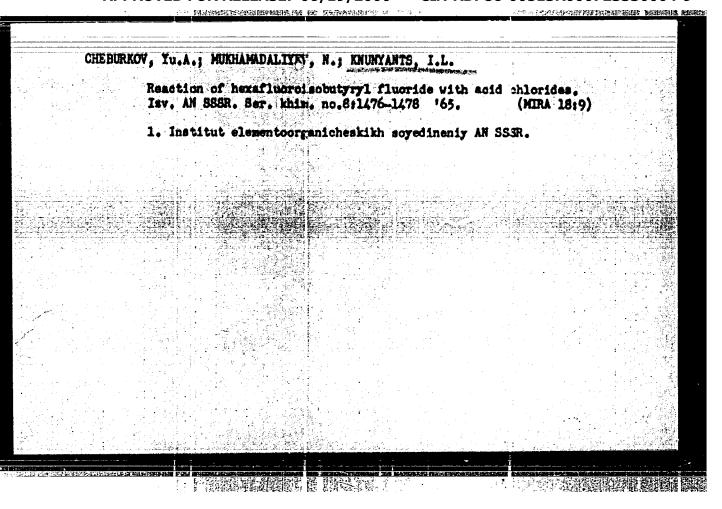
AP5028457 JD/	1)/ENT(m)/ENP(i)/ENP(t)	ODE: UR/0286/65/000/020	JP(c)/RPI /0021/0021 5-3	
ORG: none			745	mac district
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SOURCE: Byulleten' iso	breteniy i tovarnykh snako	v, no. 20, 1965, 21		
ABSTRACT: This Author β-exypolyfluorealkanes trioxide at 5060C. T sulfur trioxide is pass distillation in a curre	sulfur compound, clefin, Certificate presents a met ulfonic acids by heating a consulty the process, the distribute a rectifying cont of fluorolefin and puri	hod for obtaining sulton mixture of fluorelefing a gaseous mixture of fluorelefing lumn. The product is se	with sulfur orolefin and parated by	the party of the second of the
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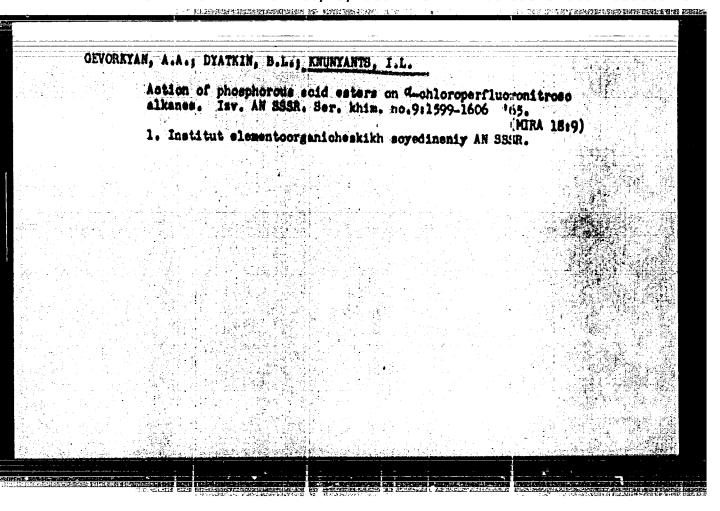


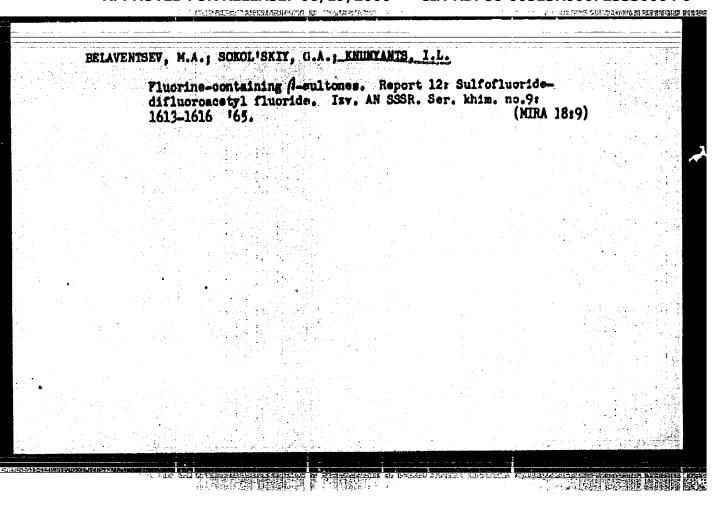
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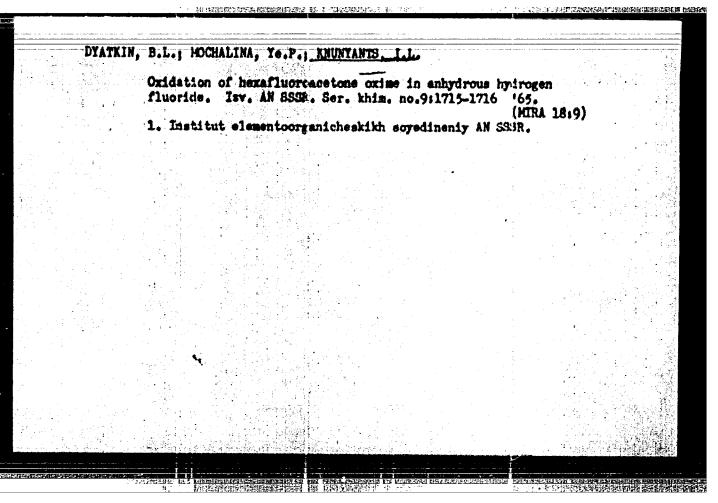
Reaction of perfluorodimethylketene with dimethylformanide. Isv. AN SSSR. Ser. khim. no.8:1478-1480 '65. (MIRA 18:9) 1. Institut elementoorganicheskikh soyedineniy AN SSSR.	CHEBURKO	V, Yu.A., MUK	HAMADALIYEV, N	,; ARONOV, Yu,Y	e.; KNUNYAYTS, 1.1	
1. Institut elementoorganicheskikh soyedineniy AN SSSR.		Reaction of) Izv. AN SSSR	perfluorodimet! . Ser. khim. no	ylketene with 5.8:1478-1480	dimethylformanide.	1819)
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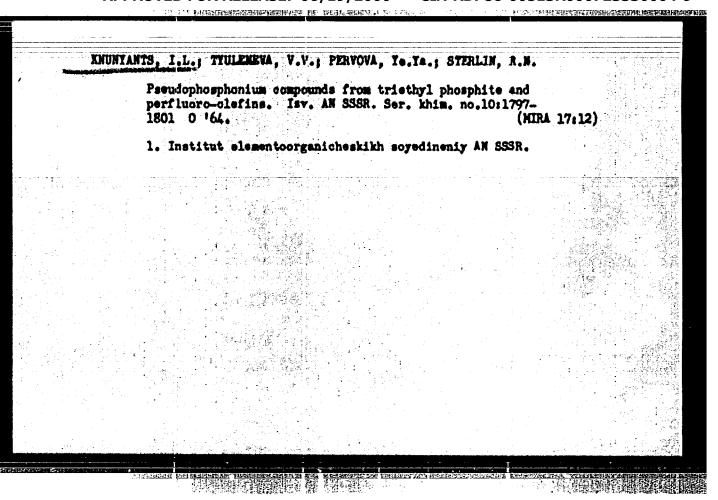
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SOKOL'SKIY, G.A.; BELAVENTSEV, M.A.; KNUNYANTS, I.L.

Fluorine-containing P-sultones. Reports No.14: Trifluorovinyl chlorosulfate. Izv. AN SSSR.Ser.khim. no.10:1804-1808 '65.

(MIRA 18:10)

KNUNYANTS, I.L.; GOLUBEVA, N.Ye.; DEL'TSOVA, D.P.

Poptides containing N-dichloroacetyl-DL-serine. Izv. AN SSSR.Ser. (MIRA 18:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

"我们,我们的还要将那种现在,我们的"有一块"的。 特别是我们的"

DYATKIH,	B.L.: GEV RKYAN, A.A.; KMUNYANTS, I.L.	
to produce	Satstitution of nitroso group in perfluoronitroso alkanes Izv. AN S SR.Ser.khim. no.10:1873-1875 165.	(MIRA 18:10)
	1. Institut elementoorganicheskikh soyedineniy il issa.	
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	의 대한 사람이 하는 현실하는 한 수요. 시작에는 발생되는 사람들이 가려움을 받는 것이다.	
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经内外加强的证明的人的问题 医神经病 医脱二氏 (1981) ZURABYAN, S.E.; RASTEYKEME, L.P.; KIL'DISHEVA, O.V.; KNUNYANTS, 1.L. Not-soyl derivatives of arginine containing oddi(2-chloroethyl) amino group. Inv. AN SSSR. Ser. khim. no.10:1899-1901 0 '64. (MIRA 17:12) 1. Institut elementoerganicheskikh soyedineniy AN SSSR.

CHERURKOV, Yu.A.; MUKHAMARALIYAV, N.; PANNANIC, 1.1., abstania

A.-Nitrosobezafluoroisobutyrin actd. Dokl. AN SSER 165 no.1:127-129
N 165.

1. Institut elecanteorganicheskilin soyedinenty AN SER.

KNUNTANTS. Lib., glav. red.; BAKHAROVSKIY, R.ya., sam. glav. red.;

VASKEVICH, D.N., nauchn. red.; VOHSKIY, Ye.V., nauchn. red.;

red.; Oalle, R.R., nauchn. red.; OODIN, Z.I., nauchn. red.

HOSTOVEKO, N.P., nauchn. red.; TRUKHANOVA, H.Ya., red.

[(cancise chemical encyclopedial Kratkaia khimicheskaia en siklopediia. Woskva, Sovetskaia Entsiklopediia.

Vol.4. 1965. 1182 columns. (MIRA 18:7)

MH/JW/RM EWT(m)/EWP(1) L 44365-66

ACC NR. AP6019737

UR/0063/66/011/003/0356/0358 SOURCE CODE:

AUTHOR: German, L. S.; Knunyants, I. L.

ORG: Institute of Organoelemental Compounds, Academy of Sciences SSSR (Institut mentoorganicheskikh soyedineniy akademii nauk SSSR)

TITLE: Reactions in anhydrous hydrogen fluoride. Synthesis of fluorine containing simple and complex esters

SOURCE: Vses khim obshch. Zh, v. 11, no. 3, 1966, 356-358

TOPIC TAGS: ester, esterification, compound, chlorinated organic compound fluorinated organic

ABSTRACT: Several simple fluorine-containing esters were synthesized from 1,1-difluore -ethylene alcohol and formaldehyde in HF-solvent. The complex esters were synthesized from 1,1-difluoroethylene (or 1,1-dichloroethylene), acetic acid and formaldehyde in HF-solvent. Boiling points, refractive indices, densities, yields, data on elementary analyses, and NHR spectral data for the product esters, are presented in tabular form. In a typical synthesis example, 0.2-0.3 mol of alcohol (or acetic acid) were added within 1-1.5 hours to a 15% solution of paraformaldehyde in HF at 0 to -5°C. After 2-3 hr, the excess of HF was driven off by evaporation and the reaction mixture was separated from ice, neutralized with ammonium carbonate and extracted with diethyl ether or distilled off. Orig. art. has: 1 table, 3 formulas.

SUB CODE: 07/

SUBH DATE: 24Dec65/

ORIG REF: 002/

OTH REF: 001

10年2月11年11日 10日

UDC: 547.221/547.29

Card 1/1

ZAVIDOV, V.I.; ZMIYEVSKIT, P.K.; FEDOROVA, Z.V.; EMUR.L.I.; ATAMAKIN, A.I.

Obtaining extracts to be used as rew materials in the production of carbon black. Mefteper. i neftekhim. no. 6e24-26'63
(MIRA 17:7)

1. Volgogradskiy namelmo-isaledovatel'akiy institut neftyanov i gasovoy promyshlemosti i Volgogradskiy netrepererabatywayushchiy savod.

SOURCE CODE: UR/0413/66/000/020/0038/0038 ACC NR. AP6035835 INVENTOR: Knunyants, I. L.; Bykhovskaya, E. C.; Frosin, V. N.; Sizov, Yu. A. ORG: none TITLE: Preparation of fluorine-containing isoxazolidines. Class 12, No. 187026 (announced by Military Academy for Chemical Protection (Voyennaya akademiya khimicheskoy zashohity)] Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, SOURCE: 1966,38 TOPIC TAGS: fluoroisoxazolidine, nitrone, clefine, potassium fluoride, fluoriated organic compand, polanium compand, fluoriate ABSTRACT: In the proposed method, fluoriae-containing isoxazolidines are obtained by treating nitrones with C1-C5 4-olefins in an organic solvent, e.g., benzene, in the presence of potassium fluoride in an autoclave at 420°C. [WA-50: CBB No. SUB CODE: 07/ SUBM DATE: 208ep65 TDO: 547.7861 221.07 Cord 1/1 TITC: 51.7 388 1. 07 Card 1/1

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	4CC NR. APO625994 SOURCE CODE: UR/0079/66/036/007/1326/1330	•
	AUTHOR: Dyatkin, B. L.; Gevorkyan, A. A.; Knunyants, I. L.	• •
	ORG: none	
	TITLE: Derivatives of trifluoroacetohydroxamic acid	
A STATE OF THE PARTY OF THE PAR	SOURCE: Zhurnal obshchey khimii, v. 36. no. 7, 1966, 1326-1330	
	TOPIC TAGS: trifluoroacetohydroxamic acid derivative, chlorination, bromination, FLUORINE COMPOUND, ACETAL, ORGANIC NITROSO	
	ABSTRACT: Hydrogenation of CF ₃ CF ₂ HO ₂ over palladium black in absolute ather at an initial pressure of 120 atm gave CF ₃ CF ₂ HOH (bp 30-31°C, np ²⁶ 1.3230, d ₂₀ 1.1520), which was chlorinated at -40°C in tetrachloroethane in the presence of pyridine to form (92%) CF ₃ CFClH:0. The latter was mixed with phenol and ethyl ather at -78°C and then brominated with HBr at -30°C to form GF ₃ CF:HOH, which was identified as GF ₃ CF:HOH·0.5(C ₂ H ₅) ₂ O (bp 78-80°C, np ²⁶ 1.3245, d ₂₈ 1.1200):	
	CF=-CFCI-N=0+H-Br CF3-CFCI-N-0+H+Be' CF3-CFCI-N=0+H-Br CF3-CFCI-N-0-H-Be'	
-	Car 1/3- UDO: 547.413.5	

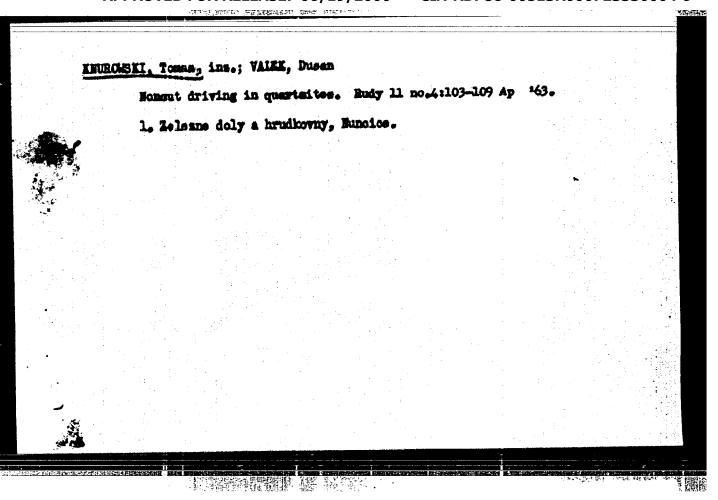
	X 数:发生制度及研究性制度的结合	RO INCHES		
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ACC NRAP6025	C7,-C7CI-9-08+8Br -	→ C7,C7-N-08+C		
is formula to the conclusion of the conc		ion) or by Br, s of NBr, to fo .3(C ₂ Ng) ₂ O (bp H, identified of	when the reacts orm CF,CCl:KOH, 48°C, np20 1.36 as CF,CBT:MON.0,	
	C7,-C7-K-OH-	+MCI CF3-CCI=N-DI	K+H7.	
mp 82.	itroso compound which 5-83.5°C; this when a (552) CV,CCI:NON,	chlorinated at bp 98-102°C,	(CY,CH,NO),, -20 Cin RC1 nD ²⁰ 1.3610.	
Cord 2/3	CF,-CH,NO, -M,FF+ CF,CH, 	MION — CF,CCI—N—O		
rese representation of the property		STATE WAS PARADO TO THE PARADO	residente de la recipio esta esta esta esta esta esta esta esta	984 7 A 7 Y 70 F 2 10 17 17 17 18 4 A 7 A 7 A 7
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VALEK, Disan; KLIMA, Jaroslav; KNUROWSKI, Tomas, ins.

Ho-out gallery driving. Rudy 13 no.2:57-66 F '65.

1. Zelesorudne doly a hrudkovny National Enterprise, Fjpovice-Rucice (for telek). 2. Central Administration of the Research and Mining of Radioactive Raw Materials, Pribram (for Klima).

3. Institute of Ore Research , Prague (for Knurowski).



VALEK, Dusan; KNUROWSKI, Tomas, ins. Use of driving by parallel boreholes in the ore mines of Musice. Rudy 10 no.7:225-227 Jl '62. 1. Zelesne doly a hrudkovny Ejpovice - Mucioe.

INUTOV, G. D.

"Investigation of the Optimum Zone of Separation of the Chamber
Mixture for Obtaining Alabhol in the Process of Bread Baking." Sub 15 Det
17, Moscow Technological Inst of Food Industry

Dissertations presented for degrees in science and engineering
in Moscow in 1947

Gand. Tech. Sci.

So: Sum No. 157, 18 Apr 55

WYKHOVANETS, V.V.; CHENETS, V.V.; KNUTOV, V.I.; KALECHITS, I.V.

Methods of the determination of the mark position in sixmembered rings. Isv. vys. ucheb. mav.; khim. i khim. tekh.
8 no.3:432-434 165. (MIRA 18:10)

1. Irkutskiy gosudarstvennyy universitet imeni Zhdanova, kafedra organicheskoy khimii.

市門原語的新聞發起 開露 计实际

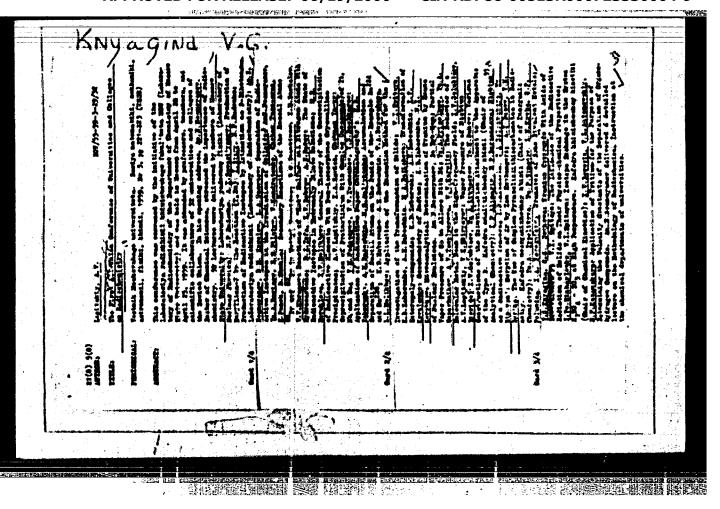
VYKHOVANETS, V.V.; LIPOVICH, V.O.; ENUTOV, V.I.; CHEMETS, V.V.; ELYUM, O.I.;
KAIECHITS, I.V.

Syntheses of methyloyelohexanes labeled with carbon-C¹⁴ in pecitions 1,2,3,4, and 7. Ehrr.VKEO 10 no.4:465-466 '65.

(MIRA 18:11)

1. Institut nefte- i uglakhimioheskogo sintesa.

KHYAGININA, I.P.; LAPINA, R.A.; BLINOV, V.A.; GUDVILOVICH, I.V. New "carbosoline" softeners. Tekst.prom.22 no.3:68-69 Hr 162. 1. Hauchno-issledovatel'skiy institut organicheskikh poluproduktov i krasiteley (NIOPIE). (Textile finishing)



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